SUBMIT IN TI CATE* (Other instructions on reverse side)

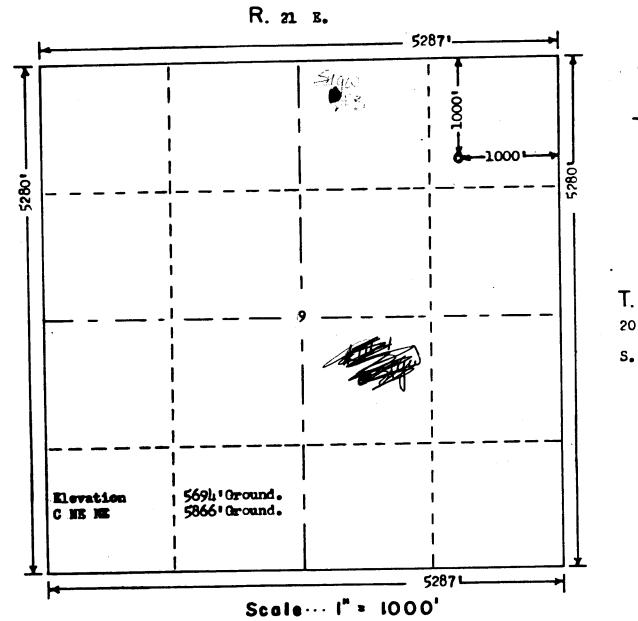
Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

	DEPARTMENT	OF THE I	N I Er	lion		į	5. LEASE DESIGNATION AND BERIAL NO.
		U-5675					
APPLICATION	N FOR PERMIT T	O DRILL, [DEEPE	EN, OF	PLUG BA	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	LL 🗵	DEEPEN [PLUG BAC	K □	7. UNIT AGREEMENT NAME
OIL DO RELL	18 🔽			NGLE 🔀	DR MULTIPLE	· 🛛	8. FARM OR LEASE NAME
2. NAME OF OPERATOR	ELL OTHER				2013		Federal
The Anschutz	Corporation,	Inc.				ľ	9. WELL NO.
3. ADDRESS OF OPERATOR	ОС. РС. 11111						#2 Federal 675 🥢
1110 Denver	Club Building.	Denver. C	olor	ado 8	30202	Ī	10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Re	Club Building, eport location clearly and	in accordance wit	h any 8	tate requi	rements.*)		Wildcat
	'FNL, 1000'F	EZ					11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
At proposed prod. zon	Same						Sec. 9, T20S-R21E
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE	E*			12. COUNTY OR PARISH 13. STATE
A manavá matal	y 23 miles fro	m Thompso	on. I	Jtah		İ	Grand Utah
15. DISTANCE FROM PROPO LOCATION TO NEAREST	1810.		16. NO	OF ACRE	S IN LEASE	17. NO. O	ACRES ASSIGNED TO ORSO (0-1)
PROPERTY OR LEASE L	INE, FT.	1000' /		840	Ac		320 Ac 160 (Son)
18. DISTANCE FROM PROP	OSED LOCATION*		19. PR	OPOSED DE	РТН	20. ROTAE	Y OR CABLE TOOLS
TO NEAREST WELL, DI OR APPLIED FOR, ON THE	RILLING, COMPLETED, IS LEASE, FT.			3180			Rotary
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)						22. APPROX. DATE WORK WILL START*
5694' ungrade	ed ground eleva	ition					15, Aug. 1977
23.	P	PROPOSED CASI	NG ANI	CEMEN'	ring program	MT ·	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	FOOT SETTING DEPTH				QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#			00	180 s	
7 7/8"	4 1/2"	9.5#		31	30	200 s	acks
3. Log B. O. F 4. Run electr 5. Run other 6. This well of cliffs. THIS REF Exhibits Atta "A" Locatio "B" Ten-Po "C" Blowou "D" Multipo "E" Access "F" Map of	ched on and Elevation oint Compliance of Preventer District Requireme Road Map Existing Wells	ductive, ru , perforati ic Exception THREE W n e Program agram nts	e and on; r	noved S "G "H	ulate as r 480' to S " Drill " Drill	Pad L Rig ar	ayout; Cut & Fill ad Production Facilities
preventer program, if an 24.		A	gent	Consu	iltant for schutz Co		tion DATE June 25, 1977
(This space for Federal	Fentress						
PERMIT NO.	5-019 303	777		APPROVAL	DATE		
APPROVED BY			rl e				DATE
CONDITIONS OF APPROV	AL, IF ANY:						

Anschutz Corporation Federal-675 1000'FN & 1000'FE 9-20S-21E Grand County, Utah EXHIBIT "G" Powers Elevation Company, Inc. 2001 5700' 5695 .Scale: 5690, **568**5' 5680 -5675

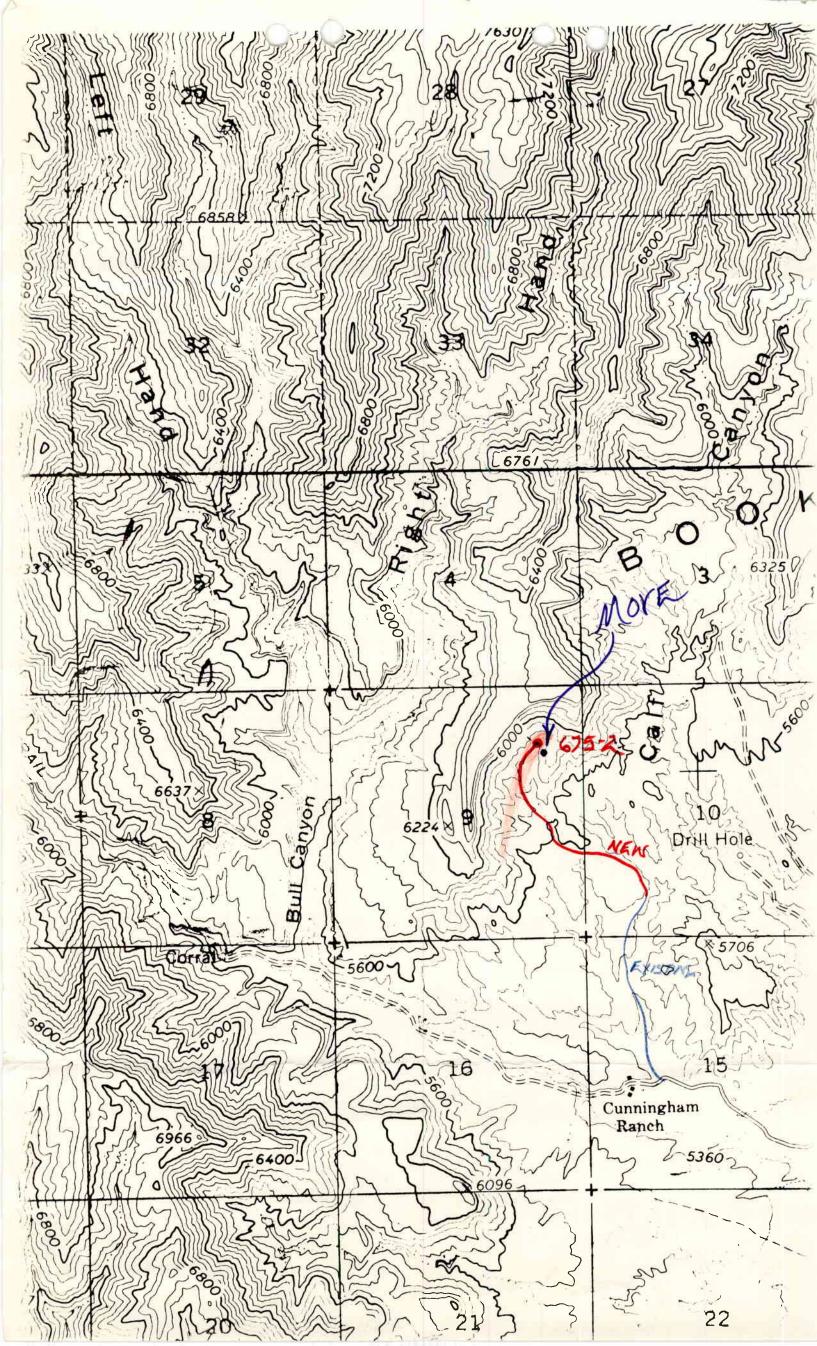




Powers Elevation Company, Inc. of Denver, Colorado
has in accordance with a request from George Fentress
for Anschutz Corporation
determined the location of #2 Federal-675
to be 1000'FN & 1000'FE Section 9 Township 20 S.
Range 21 E. of the Salt Lake Principal Meridian
Grand County, Utah

I hereby certify that this plat is an accurate representation of a correct survey showing the location of #2 Federal-675

Date:	5-27-77	T Talson	
Duit		Licensed Land Surveyor No. 27.	1
		State of Utah	



SIMPLIFIED RIG LAYOUT SMALL LOCATION 2%" Flow line to Exhibit "H" PipEliNE #2-Federal 675 ACCESS ROND METER House PIPE CHRISTMAS REE WELL HEAD RIG STRUCTURE PIT PUMP TANK

Ten Point Compliance Program of NTL-6 Approval of Operations

Attached to Form 9-331 C
The Anschutz Corporation
#1 Federal 675
660' FNL 2104' FWL
Sec. 10, T 20 S - R 21 E
#2 Federal 675
1000' FNL, 1000' FEL
Sec. 9, T 20 S - R 21 E
All in Grand County, Utah

#1 Federal 104 500' FNL, 1400' FEL Sec. 4, T 20 S - R 21 E

1. The Geologic Surface Formation

All three wells are situated on the edge of the Book Cliffs. The surface formation is the dark gray Mancos Shaie. This shale forms the bare, steep hills of badlands-type topography. The cliffs immediately above #2-675 are composed of the resistent buff and gray fine grained massive Castlegate sandstone. Both the Castlegate and the Mancos are Upper Cretaceous in age.

A short distance from the cliffs the Mancos is covered by pediment deposits. These flat erosional surfaces are evident over a large portion of this area. The #1-675 site is located on a terrace of this pediment complex.

2. Estimated Important Geologic Markers

Formation	#1 Fed 675 Depth	#2 Fed 675 Depth	=1 Fed 104 Depth
Mancos Shale	Surface	Surface	Surface
Dakota Sandstone	2522	2879	3369
Cedar Mountain	2666	3023	
Morrison	2712	3069	3 50 9
Salt Wash			3600
Entrada			3790
E TD	2820	3180	3910

Exhibit "B"
Ten Point Compliance
Page 2

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Formation	#1 Fee	1 675	#2 Fed 6	75	#1 Fed 104		
- 4-4	Depth	Fluid	Depth	Fluid	Depth	Fluid	
Dakota	2522	Water	2879	Water	3369	Water	
Cedar Mountain	2666	Oil	3023	Oil			
Morrison	2712	Tight	306 9	Tight	3509	Oil	
Salt Wash		- -			3600	Tight	
Entrada	erné mné				3790	Gas	

4. The Proposed Casing Program

All three wells will run 200' of 8 5/8" new K-55, 24# casing in a 12 1/4" surface hole. Casing will be set with 180 sacks of Class G cement with return flow to the surface.

In the event of production, each well will set $4\ 1/2$ " new J-55 9.5# Production casing in a 7 7/8" hole at T.D. This will be set with 200 sacks of 50-50 Posmix with 2% Gel and 2% CaCl₂.

5. The Operator's Minimum Specifications for Pressure Control

Exhibit "C" is a schematic diagram of the blowout preventer equipment planned for use in these wells. The BOP's will be hydraulically tested to the full working pressure after nippling up and after any use under pressure. Pipe rams will be operationally checked each 24 hour period. The blind rams and annula preventer will be checked each time pipe is pulled out of the hole. All testings will be recorded in the daily drill sheets. Accessories to BOP's include upper and lower kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of Proposed Muds

(a) It is planned that each well will be drilled with air from the base of the surface casing to the total depth. If air is abandoned, then (b) and (c) will be used.

Exhibit "B"
Ten Point Compliance
Page 3

- (b) If air drilling is abandoned, then the hole will be drilled with native muds to 4000'.
- (c) From 4000' to TD the hole will be drilled with Chem-Gel with the mud weighted as necessary for good hole conditions. The water loss will be kept from 8 to 12 cc and the viscosity between 35 and 45.

7. The Auxilliary Equipment to be Used

- (a) A kelly cock will be kept in the string at all times.
- (b) A float will be used at the bit at all times.
- (c) A gas detecting device will monitor the system.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly cock is not in the string.

8. The Testing, Logging, and Coring Programs

- (a) All valid shows will be tested. The objective for each well is the Morrison Formation.
- (b) If air drilled, an induction log will be run from TD to the base of the surface casing and gamma ray, compensated formation density, and sidewall neutron porosity logs will be run at the minimum footage. If the hole is fluid filled, a dual induction log will be run from TD to the base of the surface casing and gamma ray, compensated formation density, and compensated neutron logs will run at the minimum footage.
- (c) No coring is anticipated.

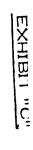
9. Any Anticipated Abnormal Pressures or Temperatures Expected

No abnormal pressures or temperatures have been noted or reported in the wells drilled in this area to these depths. No hydrogen sulphide or other hazardous gases or fluids have been found reported or known to exist at these depths in this area. Exhibit "B"
Ten Point Compliance
Page 4

10. The Anticipated Starting Date and Duration of Operations

The anticipated starting date is set for August 15, 1977, or as soon as possible after examination of the surface and approval of all drilling requirements.

It is anticipated that each well should be completed within 20 days after spudding the well.



Blowout Preventer Diagram

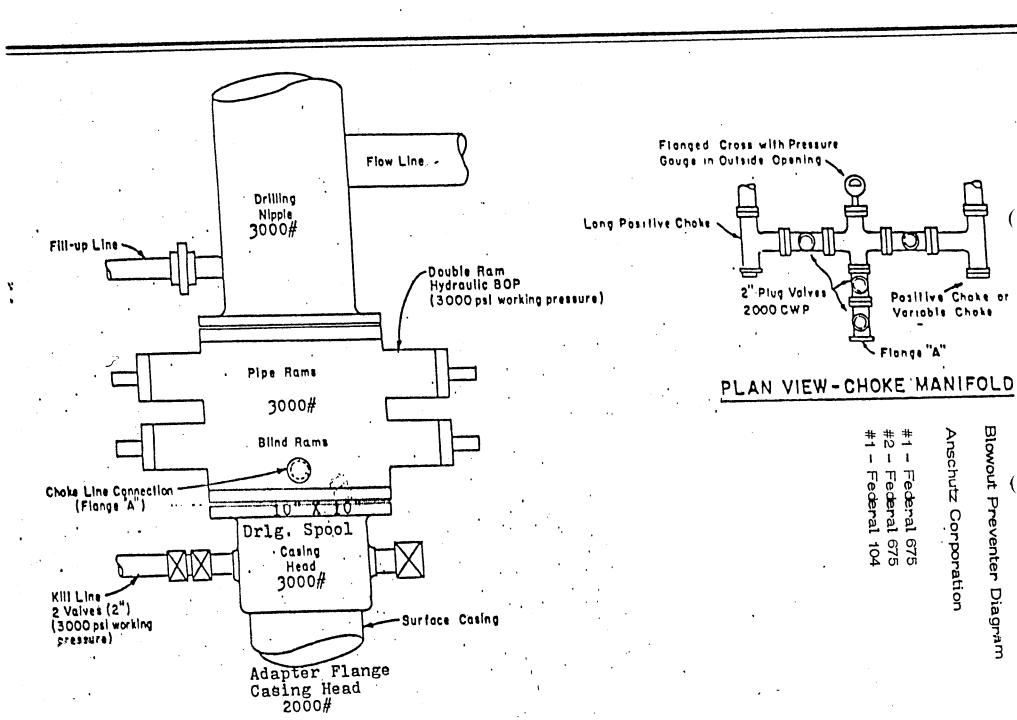


EXHIBIT "D" Multipoint Requirements to Accompany APD

Attached to Form 9-331C
The Anschutz Corporation
#1 Federal 675
660' FNL, 2104' FWL
Sec. 10, T 20 S - R 21 E
#2 Federal 675
1000' FNL, 1000' FWL
Sec. 9, T 20 S, R 21 E
All in Grand County, Utah

#1 Federal 104 500' FNL, 1400' FEL Sec. 4, T 20 S, R 21 E

1. Existing Roads

- A. EXHIBIT "A", 1 and 2 Federal 675 and 1 Federal 104 are the proposed well sites as staked by Powers Elevation Service, and the ground elevations are shown thereon.
- B. EXHIBIT "E" is a color coded map prepared from the Southeastern Central Utah Map no. 2 of the Utah Travel Council. One travels 18 miles on I-70 from Thompson, Utah, east to the Cisco exit. It is approximately 11 miles northwest on gravel and dirt road to the three locations. The red color in Exhibit "E" indicates good, passable road, and green represents access road which must be constructed.
- C. EXHIBIT "F" is prepared from $7\frac{1}{2}$! U.S.G.S. Sego Canyon Topographic Quandrangle. The red color shows the existing, usable road. The green color indicates the roads which must be built to provide access to each location.
- D. All known existing roads within the required 3 mile radius are shown in Exhibits "E" and "F".
- E. These are not development wells.

Planned access Roads

(1), (2), (3), (4), (5). The short access roads are shown in green in Exhibit "F". These roads need not exceed 16 feet. The grades will be steep at places and there will be no need for turnouts or culverts. The roads have been flagged and cut-fill and drainage design will be accomplished as the roads are constructed.

- (6) No surfacing materials will be needed during drilling operations. If production is obtained, the access roads will be surfaced with local stream gravel.
- (7) No gates, fence cuts, or cattle guards are needed.
- (8) The access roads will all be less than 1,000' in length and therefore do not need to be center line flagged.

3. Location of Existing Wells

A one mile radius from each of the proposed development wells is indicated in Exhibit "F". All known wells and their current status are indicated thereon.

- (1) No known water wells exist in the area.
- (2) Exhibit "F" shows all the dry holes within the required two mile radius.
- (3), (4), (5). There are no known temporarily abandoned wells, disposal wells, or drilling wells in the area.
- (6) All known producing wells are indicated in Exhibit "F" with the appropriate symbol.
- (7), (8), (9). There are no known shut-in, injection, or observation wells in this area.

4. Location of Existing and/or Proposed Facilities

- A. There are no existing facilities owned or controlled by operator within a 1 mile radius of the location.
- B. (1) Exhibit "H" shows all anticipated drilling and production facilities.
 - (2) The dimensions of the facilities shown on Exhibit "H" are roughly drawn to scale of 1 inch = 50 feet.

- (3) No materials other than that available on location are anticipated to be needed for construction.
- (4) Rehabilitation, whether the well is productive or dry, will be made on unused areas as soon as possible in accordance with plans drafted in Item 10 following. No water production is anticipated which would require flagging.

5. Location and Type of Water Supply

Water, if needed, will be obtained from the perennial stream in Nash Wash.

6. Construction Materials

A, B, C, D. No construction materials are needed for drilling operations. The sand, gravel and rock located in situ are adequate for any construction necessary in connection with either dry or producing wells. There are no access routes needed for crossing Indian land. The access routes for crossing Federal land are shown in green in Exhibit "F".

7. Handling Waste Disposals

- (1) Drill cuttings will be buried in the reserve pit when covered.
- (2) Drilling fluids will also be handled in the reserve pit.
- (3) Any fluids produced while drill stem testing or producing or other testing will be collected in a test tank set near the pipe baskets or near the well head. Any unavoidable spills of oil or other adverse substances or materials will be covered or removed immediately during drilling progress or during completion operations.
- (4) Any sewage will be covered or removed.

- (5) Garbage, wastes and non-flammable wastes, salts and other chemicals produced or used during drilling or testing will be handled in the reserve pit or kept in the trash or burn pit. The trash or burn pit will be covered with small wire mesh to prevent scattering.
- (6) The reserve pit, in addition to the trash or burn pit, will be fenced on three sides during drilling operations, and iron or other posts and wire fencing will be available on each location immediately upon cessation of drilling and the fourth side if the reserve pit will be fenced prior to full removal of the rig from the location. Any other dangerous or harmful pits or sewage areas will also be fenced or covered at the time rig moved off location.

8. Ancillary Facilities

No airstrips, camps, or other living facilities will be built or needed.

9. Well Site Layout

- (1) Exhibit "G", 1 and 2 Federal 675 and #1 Federal 104, are the drill pad layouts as staked by Powers Elevation Company. The elevation contours have been drawn on these plats by Beathard. The cut and fill cross section for each location is designated A-A' and location has been constructed from these contours. The top 6 inches of soil will be stockpiled as shown on each plat. The location of the excess material removed during the drill pad preparation is also shown on each plat.
- (2) The mud tanks, pits, rig orientation, etc. for all 3 wells are Exhibit "H". If the wells are drilled by air, these facilities may change accordingly.

- (3) Exhibit "H", also shows the rig orientation, parking areas and access roads for each location.
- (4) The reserve pit will not be lined for #2-675 and #1-104. #1-675 will be lined. Steel mud pits, if used, will be shown in Exhibit "H".

10. Plans for Restoration

- (1) Backfilling, leveling and contouring will be accomplished as soon as possible after plugging of each well, or immediately on those areas unused if production is obtained. Waste disposal and spoils materials will be buried or hauled away immediately before rig moves off location.
- (2) Rehabilitation will be accomplished by spreading the banked topsoil over the area and contouring the banks that will be created in this heavily eroded area so that vegetation planted will be best protected from erosion. Revegetation will be accomplished using grasses or mixtures suited best for the dry, arid conditions encountered here. The access roads will be revegetated as needed.
- (3) Prior to rig release, the fourth side of the reserve pit at each drill site will be fenced and maintained until clean up operations are finished.
- (4) Any oil or spills will be immediately cleaned up or flagged.
- (5) Rehabilitation operations will commence as soon as the rig moves off location. However, revegetation will be delayed until the fall of 1977 or the spring of 1978 for optimum growth potential.

11. Other Information

(1) All three wells are located at the southern edge of the Book Cliffs. The area consists of steep bare shale hills and ridges of badlands-type topography. #1-675 is

situated on a terrace below one of the pediment surfaces extending from the base of the cliffs. The site of #2-675 originally fell on a steep talus slope halfway to the top of the cliffs. This site was moved 480' to the southwest to the bottom of the slope. #1-104 is situated on a pediment bench approximately 1 mile north of #2-675.

The soil at #1-675 is a sandy silty clay, derived from the Mancos Shale. It supports a sparse flora consisting of Juniper, Sage, Snakeweed, Cactus, Snadscale and some grasses.

The sites of #2-675 and #1-104 are composed almost entirely of talus rubble and as such has very little soil. The only vegetation here is Shadscale, Snakeweed and sparse grass. Juniper is present on some of the hill slopes. Both sites are highly erodible.

The observed animal population is rabbit and lizards, with evidence of domestic sheep and cattle. Other wildlife indigenous to the semiarid environment is presumed to exist.

- (2) Grazing is the only observed current surface use in this area. The ownership of the surface is Federal. Private land is crossed only on existing roads.
- (3) #1-675 is on a terrace 50 feet above a dry stream bed. This stream should not be impacted as the reserve pit will be lined and no oil or chemical runoff will be permitted. (Refer to Item 7 above). #2-675 and #1-104 are not near any water.

All the sites have been surveyed for evidence of cultural resources of both historic and prehistoric origin. All the sites have been cleared and approved. The access roads will be surveyed before construction begins. Reference is made to the archaeological report of the Agency of Conservation Archaeology of the San Juan County Museum dated 6 June, 1977, prepared by Pat Zarnowski. Copies of this report have been distributed to all concerned agencies.

The commencement dates for all three wells is scheduled for approximately 5 August, 1977, or as soon as possible after approval.

12. Lessee's or Operator's Representative

George H. Fentress Environmental Engineering Company Agent Consultant for The Anschutz Corporation 1645 Court Place, Suite 229 Denver, Colorado 80202

Phone: (303) 892-1506 Res: (303) 279-4880

Phil Herrington
The Anschutz Corporation, Inc.
1110 Denver Club Building
Denver, Colorado 80202

Phone: (303) 573-5665 Res: (303) 494-0576

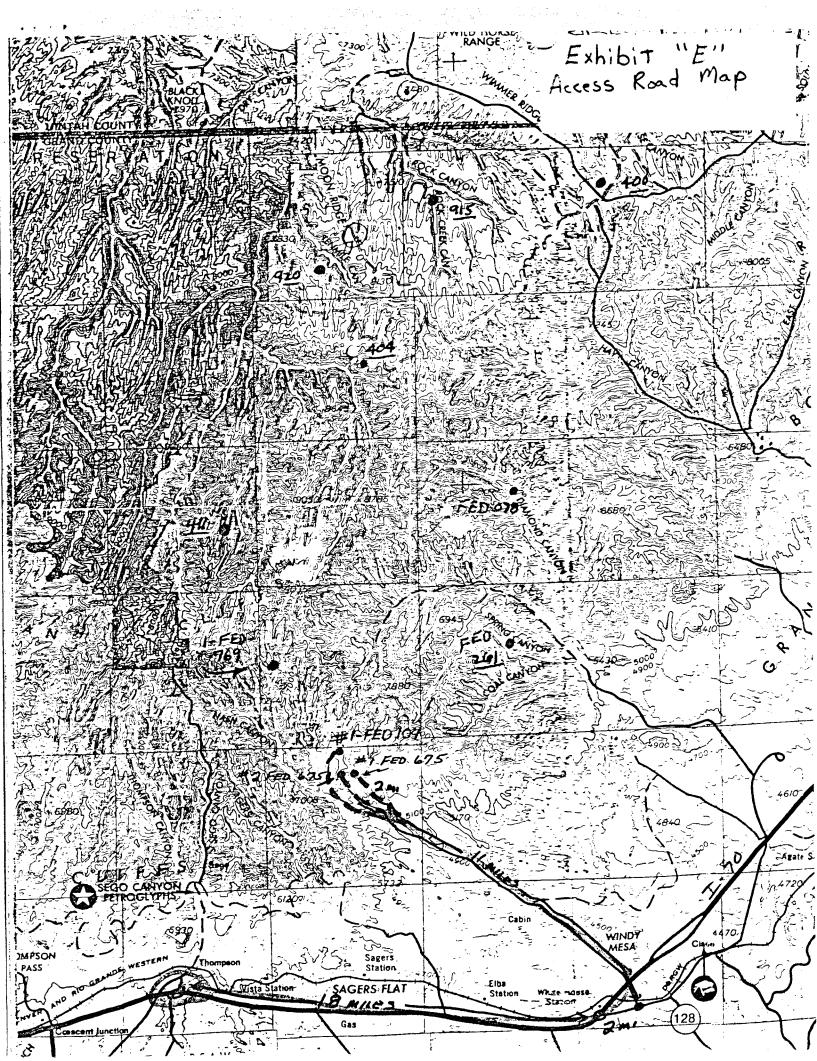
13. Certification

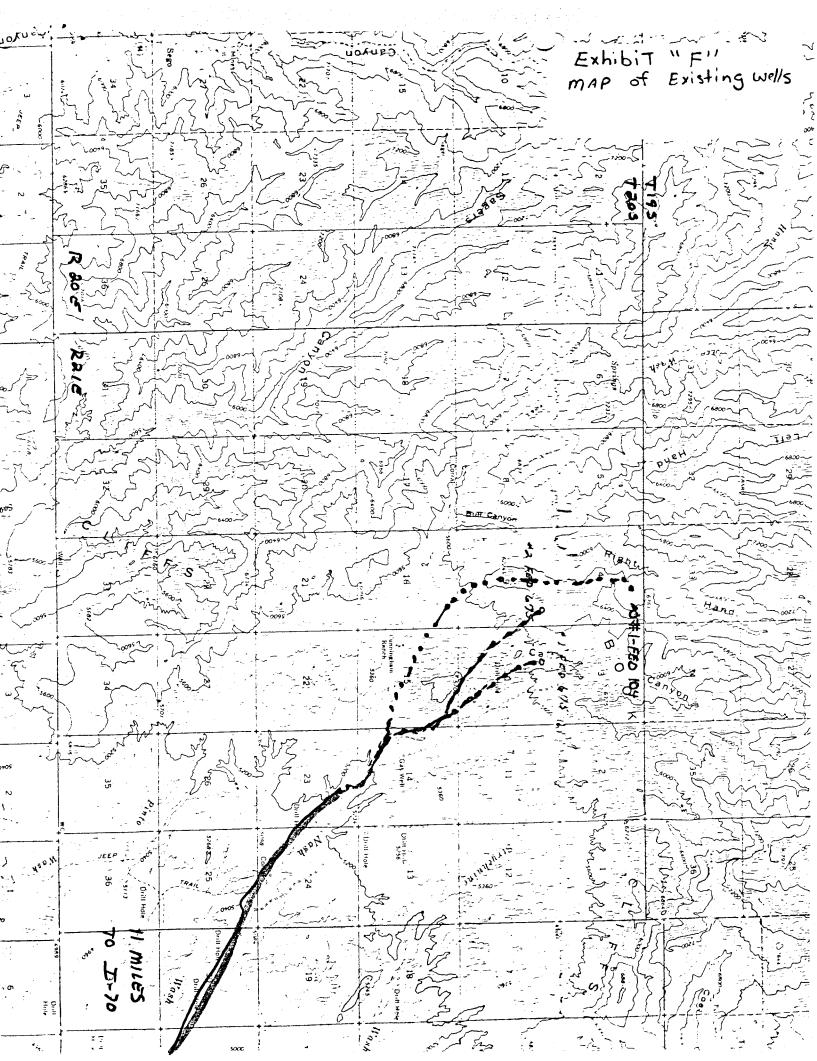
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by The Anschutz Corporation, Inc. and its contractors and sub-contractors in conformity with this plan and their terms and conditions under which it is approved.

Date: 1977

Name: George H. Fentress Title: Agent Consultant for

The Anschutz Corporation





** FILE NOTATI	UNS **
Date:	
Operator: ausshut C	les.
Well No: #2 Led. 645	
Location: Sec. 9 T. 201 R.21E	County: <u>Grand</u>
·	ppi/
File Prepared	Entered on N.I.D.
Card Indexed / /	Completion Sheet
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<del></del> -
CHECKED BY:	
Administrative Assistant	
Remarks: Outside Space	darea - 102-12
Petroleum Engineer	
Remarks:	$\rho$
Director	8/2/01
Remarks:	Control of the Contro
INCLUDE WITHIN APPROVAL LETTER:	
Bond Required	Survey Plat Required //
Order No	Surface Casing Change /
Rule C-3(c), Topographic exception/o within a 660' radius o	company owns or controls acreage for proposed site //
0.K. Rule C-3 /_/ 0.1	K. InUnit 11
1 Other:	
Ot Completed	
Mul willed Thethe	er Written/Approved



## Mynomietal Eugineering Company

Professional Engineering Services

P. O. Box 3341 Casper, Wyoming 82601 Phone (307) 234-6186

1645 Court Place Suite 229 Denver, Colorado 80202 Phone (303) 892-1506

July 19, 1977

Cleon Feight
Utah Oil & Gas \$ Mining
1588 West, North Temple
Salt Lake City, Utah 84116

RE: Permits to drill
Anschutz Corporation
Various wells
Grand Co., Utah

Dear Cleon:

Enclosed are several items on the above with comments or questions, as follows:

(1) REVISED TYPE OF WORK ON 9-331C AND ACRES ASSIGNED: On Anschutz #1 & #2 Federal 675 and #1 Federal 104, and

#1, #2, #3 and #4 Federal 335

AMEND TO READ: "Oil Well or Gas Well" "single or multiple zones" (1a and 1b).
"40-acres or 80-acres, if an oil well", and
"160-acres or as spaced, if gas well, and to not produce from same gas zone horizon of any other gas wells within the spacing unit area" (#17 on 9-331C).

Revised copies of Form 9-331 C are enclosed for changes.

(2) ANSCHUTZ #1, #2, #3 and #4 FEDERAL 335:

It is possible I have not sent you applications for permission to drill the four wells. Therefore these applications are enclosed, together with location plats and maps.

(3) STATUS OF REQUESTS TO DRILL BY ANSCHUTZ:

I enclose a three-page status sheet of wells ready or being prepared to drill by Anschutz, on which I have worked. Nould you kindly examine this report and advise me of any changes from this or any reports that you might need. I believe all these wells have now been filed with you now, and, I am wanting to make certain that Utah has approved, or is about to approve, all of these locations as noted.

I am most appreciative of all the help you have given us there in the Oil, Gas and Mining Division.

George H. Fentress

Best wishes!

Agent Consultant Anschutz

cc. Anschutz

July 26, 1977

The Anschutz Corporation 1110 Denver Club Building Denver, Colorado 80202

> Re: Well No's: #1 Federal 104, Sec. 4, T. 20 S, R. 21 E, #2 Federal 675 Sec. 9, Y. 20 S, R. 21 E, Grand County, Utah

#### Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. However, the approval to drill the #2 Federal 675 shall be contingent upon said well not being completed in the same stratigraphic interval as the well located in the NW1/4 of the NE 1/4 of Section 9.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer

HOME: 582-7247 OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be netified within 24 hours after drilling opprations commence, and that the drilling contractor and rig numberbe identified.

The API number assigned to this well is 43-019-30395 (Fed. 104) and 43-019-30384 (Fed. 675).

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT Director

## SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425.

(Other ing/~uctions on reve: de) NITED STATES DEPART TOF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. **GEOLOGICAL SURVEY** U-5675 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG' BACK 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME PLUG BACK 🗀 DRILL 🗵 DEEPEN 🔄 b. TYPE OF WELL MULTIPLE Zone BINCLE X S. FARM OR LEASE NAME WELL OTHER 2. NAME OF OPERATOR Federal The Anschutz Corporation, Inc. 9. WELL NO. #2 Federal 675 3. ADDRESS OF OPERATOR 10. FIELD AND POOL, OR WILDCAT 1110 Denver Club Building, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) Wildcat WENE 11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA 1000 FNL, 1000 FEZ At proposed prod. zone Sec. 9, T205-R21E Same 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE Approximately 23 miles from Thompson, Utah

16. distance FROM PROPOSED*
LOCATION TO NEAREST
PROPPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

1000

16. No. OF ACRES IN LEASE

16. NO. OF AC Grand Utah 17. NO. OF ACRES ASSIGNED TO THIS WELL 320 Ac 20. ROTARY OR CABLE TOOLS 19. PROPOSED DEPTH 18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. Rotary 3180 22. APPROX. DATE WORK WILL START* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 15, Aug. 1977 5694' ungraded ground elevation 23. PROPOSED CASING AND CEMENTING PROGRAM SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT SIZE OF HOLE 200 180 sacks 24# 12 1/4" 8 5/8" 200 sacks 3180 4 1/2" 9,5# <u>7 7/8"</u> 1. Drift 12 1/4" hole to 200' and set surface casing. 2. Drill 8 5/8" hole to T.D. 3. Log B. O. P. tests daily. 4. Run electric logs; if productive, run 4 1/2" casing. 5. Run other logs as needed, perforate and stimulate as needed. 6. This well is a Topographic Exception; moved 480' to SW from C NE NE because of cliffs. THIS REPORT COVERS THREE WELLS

	bits Attached			77
11A11	Location and Elevation	"G"	Drill Pad Layout; Cut & Fi	
"B"	Ten-Point Compliance Program	"H"	Drill Rig and Production F	acilities
"C"	Blowout Preventer Diagram	·		
"D"	Multipoint Requirements		•	
"E"	Access Road Map	•		

Map of Existing Wells IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive sone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

BIGHED Heavis Fentress	Agent Consultant for TITLE The Anschutz Corporation	DATE June 25, 1977
(This space for Federal or State office use)		•
PERMIT NO.	APPROVAL DATE	•

(ORIG. SGD.) E. W. GUYNN

DISTRICT ENGINEER

DATE SEP 1 4 1977

CONDITIONS OF APPROVAL, IF ANY:

24

U.S. CTIOGICAL SURVEY, CONSERVAT' DIFFSION DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH DISTRICT ENGINEER, SALT LAKE CITY, UTAH Lease No. Location ANSCHUTZ 1000'FNL , 1000'FEL (NET NET)
CORPORATION, INC. SEC.9, T.205, RDIE, SLM
#3 FEDERAL G75 GRAND CO, UTAH Gr.E.1. 5694 U-5675 Stratigraphy and Potential The well will soul my Oil and Gas Horizons. Shale. Toledo himma Co. 2 (Bull Compo (Gr.El. 5972') some section, reported the following too Surface- mancos, Dalcota - 3290; Cedor mountain = 3364, moon-3444, Summerville-3966, Entrada-4055. 2. Fresh Water Sands. Near suface lenticular sandstone a in the Han about 500 t feet ancas may-contain mable water Other Mineral Bearing Formations.
(Coal, Oil Shale, Potash, Etc.) This location falls within considered volumble prospectively for geothernal elletulon serelle this location however at the important prophically below. The important 4. Possible Lost Circulation Zones, probably have this dorea. Dahota and horrison sando Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. Protect any fresh water aquifers genetrated. Possible Abnormal Pressure Zones High present zones may exist and Temperature Gradients. in the Dakata, Cedor hountain and ho Formations. Competency of Beds at Proposed Heathered shale will be coved off. Casing Setting Points. Additional Logs or Samples Needed. None. References and Remarks within Bull Conyon KGS.

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JUL 20 1977

Date:

when, 1936, US.G.S.

Signed:

REG.

FROM:

TO:

Well

ATTACHMENT 2-A	<u>.</u>	UN	M.	AR	Y OF	; . E	! V.V	: IRO	I NM	EN	TA	L I	М	PA	CT	EV	ALU	IATI	ON EI	[A: NO	611A
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•	EIA NO. 6//
LEASE_ 4-5625	EIA NO. <u>6//</u> DATE <u>8-25-77</u>
WELL NO. #2 Federal 675	
LOCATION: $NE^{\frac{1}{4}}NW^{\frac{1}{4}}$ , SEC. 9 T.	205 R. 21E
	Grand STATE Utah
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ENVIRONMENTAL IMPACT ANAL	ysis - attachment 2-b
I. PROPOSED ACTION	· :
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anschita Topporation  GAS TEST WELL WITH POTARY TOOLS TO AROUT 3.4	PROPOSES TO DRILL AN OIL AND
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AND [ ] TRUCK [ ] TRANSPORT THE PRODUCTION TO	HROUGH A PIPELINE TO A TIE-IN IN
SECTION T. R.	
2. LOCATION AND NATURAL SETTING (EXISTING EN	VIRONMENTAL SITUATION)
(I) TOPOGRAPHY: ROLLING HILLS I	·
OR PLAINS STEEP CANYON SIDES NARROW	CANYON FLOORSDEEP DRAINAGE
IN AREASURFACE WATER	<del></del>
(2) VEGETATION: SAGEBRUSH PINION-	JUNIPER PINE/FIR FARMLAND
(CULTIVATED) NATIVE GRASSES OTHER	CATTER THE TIME TANGEND
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(3) WILDLIFE: DEER ANTELOPE ELK BEAR SMALL
MAMMA L BIRDS ENDANGERED SPECIES OTHER
(4) LAND USE: RECREATION LIVESTOCK GRAZING AGRICULTURE MINING INDUSTRIAL RESIDENTIAL OIL & GAS OPERATIONS
REF: BLM UMBRELLA EAR & Sil + Gas fessing Program  USFS EAR Grand Resources and August 13, 1975  OTHER ENVIRONMENTAL ANALYSIS
3. Effects on Environment by Proposed Action (potential impact)
1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC
ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.
2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE
DISTURBANCE AND SUPPORT TRAFFIC USE.
3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.
4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.
5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.
6)
SALTLAKE CITY, UTAH
2251 18 any
2 ENGLANGUE CAN CAN CAN CAN CAN CAN CAN CAN CAN CAN

4.	Alternatives to the Proposed Action
•	1) NOT APPROVING THE PROPOSED PERMIT THE OIL AND GAS LEASE GRANTS THE
LES	SEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL
OIL	AND GAS DEPOSITS.
	2) Deny the proposed permit and suggest an alternate location to minimize
EN\	VIRONMENTAL IMPACTS. NO ALTERNATE LOCATION ON THIS LEASE WOULD JUSTIFY THIS
AC	ION.
	3) LOCATION WAS MOVED 200 St South dast TO AVOID
	LARGE SIDEHILL CUTS NATURAL DRAINAGE OTHER
	1 to be the final works for be ledge
	4) So as not to be built under Rock lidgue a softy reasons, at operators request
TO TO	V .
5.	Adverse Environmental Effects Which Cannot Be Avoided
,	1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT
Ī	RAFFIC ENGINES.
	2) MINOR INDUCED AND ACCELERATED FROSION POTENTIAL DUE TO SURFACE DISTURBANCE ND SUPPORT TRAFFIC USE.
. A	3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.
1	
	4) TEMPORARY DISTURBANCE OF LIVESTOCK.
_	5) MINOR AND SHORT-TERM VISUAL IMPACTS.
	6)
_	. DETERMINATION:
6	(THIS REQUESTED ACTION (DOES NOT) CONSTITUTE A MAJOR
	FEDERAL ACTION SIGNIFICANTLY AFFECTING THE ENVIRONMENT IN THE
	SENSE OF NEPA, SECTION 102(2) (C).
· D	ATE INSPECTED 8-25-77 WILLIAM SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT SUBJECT
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1	SALT LAKE CITY DISTRICT
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1110 DENVER CLUB BUILDING 518 SEVENTEENTH STREET DENVER, COLORADO 80202 TELEPHONE 303-573-5665



September 22, 1977

Mr. Cleon B. Feight, Director Division of Oil, Gas and Mining 1588 West, North Temple Salt Lake City, Utah 84116

Re: Federal 675 No. 2

Section 9-20S-21E Grand County, Utah

Dear Mr. Feight:

We wish to move the Federal 675 No. 2 location 200' SE. This was discussed with Mr. Russ Cook (U.S.G.S.) and Mr. Rocky Curnitt (BLM). It was agreed that this movement would be better for safety and environmental reasons. In terms of safety, a 200' SE change will move the pad away from the base of a very steep cliff. Environmentally the move will get the pad out of the center of the drainage pattern.

Since this change will put the location at about 120' from the  $\frac{1}{4}$  line we must request an exception to the 200' regulation. Thank you.

Sincerely,

W. Lee Kuhre

Operations Coordinator

W. Lu Kuhre

CIRCULATE TO:

MINE COMPARTOR-ADMINI

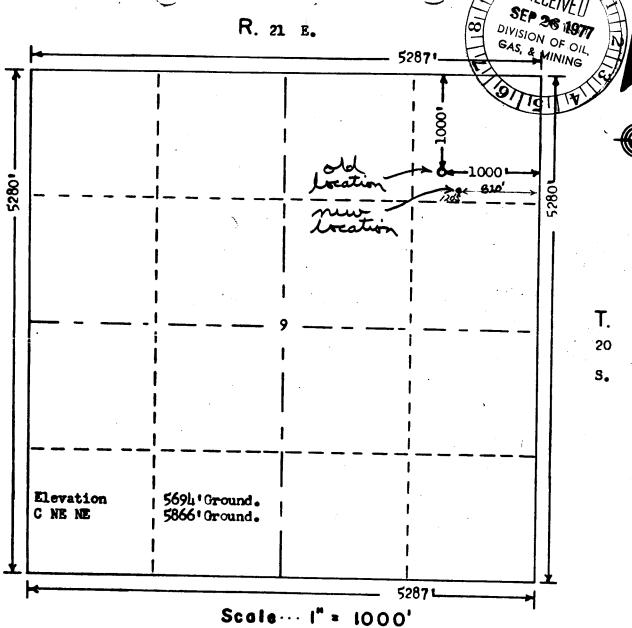
ALL ----**RETURN TO** 

FOR FILING

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WLK:ch

Enclosure



Powers Elevation Company, Inc. of Denver, Colorado has in accordance with a request from George Fentress for Anschutz Corporation determined the location of #2 Federal-675 to be 1000'FN & 1000'FE Section 9 Township 20 S. Range 21 E. of the Salt Lake Principal Meridian Grand County, Utah

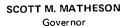
I hereby certify that this plat is an accurate representation of a correct survey showing the location of #2 Federal-675

Date: <u>5-27-77</u>

Licensed Land Surveyor No. 2711
State of Utah

Pros: Cal

Canton.





OIL, GAS, AND MINING BOARD

I. DANIEL STEWART

Chairman

STATE OF UTAH

CHARLES R. HENDERSON JOHN L. BELL THADIS W. BOX C. RAY JUVELIN

Well File

**GORDON E. HARMSTON** Executive Director, NATURAL RESOURCES

> CLEON B. FEIGHT Director

DIVISION OF OIL, GAS, AND MINING 1588 West North Temple Salt Lake City, Utah 84116 (801) 533-5771

DEPARTMENT OF NATURAL RESOURCES

September 27, 1977

Mr. W. Lee Kuhre, Operations Coordinator The Anschutz Corporation 1110 Denver Club Bldg. 518 Seventeenth St. Denver, Colorado 80202

> Re: Well No. Federal 675-#2 Section 9, T. 20S, R. 21E Grand County, Utah

Dear Mr. Kuhre:

I've received your request to move this location an additional 200' from the original proposed location.

Section 9, T. 20S, R. 21E is not in a spaced area, so the General Rule C-3 is applicable. The original location was permitted under Section "C" of Rule C-3 for topographical reasons.

A review of the topographical area does not appear to warrant an exception to an exception. Therefore, this office cannot approve your request to move this within 120' of a 4,4 line.

Sincerely,

PATRICK L. DRISCOLL

CHEIF PETROLEUM ENGINEER

PLD/ko

(1) Ed Guynn

(2) Well File



1110 DENVER CLUB BUILDING 518 SEVENTEENTH STREET DENVER, COLORADO 80202 TELEPHONE 303—573-5665

825 6100

October 12, 1977

Well park

Patrick L. Driscoll Chief Petroleum Engineer Division of Oil, Gas and Mining 1588 West North Temple Salt Lake City, Utah 84116

> Re: Site move for Federal 675-2 NE NE Section 9-T20S-R21E Grand County, Utah

Dear Mr. Driscoll:

According to our telephone converstation on October 4, 1977, I am submitting additional information pertaining to our request to move Federal 675-2.

The request to move the location is based on safety, environmental and operational considerations. As can be seen on the enclosed map, there are steep cliffs to the West and North of the location. These cliffs are very unstable and heavy equipment could easily cause boulders to fall and roll right to the original location. A 200'SE move would put the pad on the side of the smaller hill to the Southeast. If boulders would fall it is doubtful that they would be able to roll up to the proposed location. There are presently many huge boulders on the original location and no boulders on the proposed location.

Environmentally the proposed move would help also. Wherever the pad is, vegetation will have to be disturbed. This will result in errosion and cause water quality problems. Therefore, the move out of the drainage where the biggest volume of rain will be, will minimize this problem.

Mechanically, the move will reduce operational problems during storms or melting conditions. I am enclosing a copy of the Stipulation form I submitted to U. S. G. S. concerning this move. Please let me know if you need further assistance.

OF ____

W. Lee Kuhre

Operations Coordinator

WLK:ch

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**Enclosures** 

.le 30 R 221.20 requires well ...all no be wrilled closer than 200 ft. from the lease boundary or 200 ft. from any legal sub-division without adequate reasons or consent.

District Oil and Gas Engineer U. S. Geological Survey Conservation Division 8440 Federal Building Salt Lake City, Utah 84138

Re: Stipulation

Dear Sir:

	The Anschutz Corporation is the owner of U. S. Oil and	
•	Gas Lease II 5675-2	
•	on the leased premises to test for oil and gas at a location in the	
	INE A NEW Section 9, T. 20S, R. 21E, Salt Lake Principle Mer	
	Grand County, State of Utah 1000'	•
	from North line and loom	_
	Section 9 from East line of .	
	Section 221.20 of the Federal Oil and Gas Regulations requires that	
	no well be drilled less than 200' from the boundary of any legal	
	Subdivision without the written concert of the Soundary of any legal	
	subdivision without the written consent of the Supervisor, United	
	States Geological Survey. The proposed location is approximately  120' from the South boundary line of the	
	120' from the South boundary line of the	)
	necessary because of section 9, but is considered to be	
	necessary because of safety and environmental reasons. In terms of	
	safety this 200' SE change will move the pad away from the base of two	•
	steep cliffs. Environmentally the move will get the pad out of the	•
	center of the drainage pattern. Approved on site by field USGS & BLM	•
		•
	Therefore, The Anschutz Corporation , Lessee, requests the con-	•
	The series of the Supervisor to the artificant the hypnoped mall at the	
	above-described location. In consideration of such consent who	
	Anschutz Corporation . Lessee, hereby expressly coverants and agrees	•
	clique lie will lildke no separate assignments of the ME 1, ME 1, and	
	LIE DE A NE A SECTION O T OOC D OF	
Salt	bake II miciples, and that he will keep the two docombod cubdivisions	
•	ander Julie assignment until the above-mentioned well has been plussed	
•	and abandoned with the approval of the Supervisor.	
	The approved of one puper 41301.	

Very truly yours, M. Lee Kuh

The Anschutz Corporation

PLEASE SUBMIT IN TRIPLICATE

#### THE ANSCHUTZ CORPORATION

FEDERAL 675 No. 2

SECTION 9 - TOWNSHIP 20 SOUTH - RANGE 21 EAST GRAND COUNTY, UTAH

GEOLOGIC REPORT

BY

WAYNE POWELL

DENVER, COLORADO

June, 1978

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#### GEOLOGIC SUMMARY

The Anschutz Federal 675 No. 2 was spudded near the top of the Mancos shale and drilled to the total depth of 3517 feet, penetrating about 200 feet of the Salt Wash member of the Morrison. Primary objectives were sandstones in the Cedar Mountain and middle to upper part of the Salt Wash horizon, while the Dakota was slightly less prospective at this location. Production is established from various horizons in these formations to the west, north and east within one mile of this location. The following is a summary of the potentials and status of nearby wells.

Well & Location	Distance from Fed. 675-2	Fm. & I.P. or Tests
Valwood Production No 3 Bull Canyon NW NE Section 9	1/4 mile west	Salt Wash, IP 80 MCFD. (Tested 1.4 million CFGD while drilling with air- mist, poor completion- recovered green cement from perfs while completing well)
Toledo Mining No. 2 Bull Canyon NE NW Section 9	1/2 mile west	Salt Wash, IP 200 B.O. and 500 MCFD.
Anschutz Corp. No. 1 Federal 675 NE NW Section 10	1/2 mile east	Cedar Mtn., tested est. 400 MCFD and spray of oil before perfs. Currently pumping 25 BOPD and 60 MCFGPD.
Willard Pease No. 2 Calf Canyon NW SW Section 3	1/2 mile northeast	Dakota perfs, recovered water and 40 MCFD. Cedar Mtn. perfs, recovered water with a trace of oil. Status - not completed, possibly P & A.

Structurally, the Federal 675 No. 2 is about three-fourths mile southwest of the axis of the Cisco Dome anticlinal nose. This anticlinal trend appears to continue several miles in a northwesterly direction and about 20 miles to the southeast. the Dakota Silt horizon, this well is structurally 125 feet lower than the Cisco Dome axis. It is 75 feet lower than the Federal 675 No. 1 to the east and about 35 feet lower than Bull Canyon No. 3, one-quarter mile to the west. Thus its structural position is 50 to 75 feet lower than anticipated. It may be low due to fault drag along the inferred fault which trends northeast-ward through this area. It can be speculated that a relatively low structural position has affected the entrapment of hydrocarbons. However, some of the producing wells to the north and west are at a similar or lower structural datum without being adversely affected. oil and gas is stratigraphically entrapped in stream channel deposits, and the potential in some wells is probably enhanced by higher structural position. In other wells the reserves apparently result from stratigraphic variations within the individual channels.

The subject well was drilled with air to 3224 feet in the Morrison, then converted to air-mist and drilled to 3327 feet (3296 feet - log depth) without serious problems. It was then mudded up for logging and in preparation for completion or plugging. Logs were ran at this depth, 3327 feet, and without significant shows to this point, it was deepened to a total depth of 3548 feet (Log depth 3517 feet) to evaluate the middle and upper Salt Wash sands. The Morrison section below 3327 feet was drilled with mud.

Only a very poor show of oil and a weak show of gas were encountered in the air drilled portion of the hole. The oil show, at 3124 feet(log depth), in the Cedar Mountain consisted of a very light spray of oil for 2 minutes at the bloome line. A weak oil odor and trace of stain were found in samples. The well continued dusting after this brief show, and no significant fluid entry was noted. Porosity from log analysis in this four foot zone at 3122-26 feet was 16% with Sw of 73%. This is the productive horizon in the Anschutz Federal 675 No. 1 to the east, but it is apparently thin and lacks perneability in the current test. A weak show of gas was found in the Morrison at 3201 feet (3171 feet log depth). several minutes, but was intermittent and too small to measure. Water was encountered from this sandstone after drilling ahead. At 3224 feet (3194 feet log depth) the drilling method had to be converted to air-mist because of the large fluid entry. Log analysis of this sandstone at 3170 - 81 feet gives a porosity of 23% and water saturation of 82%. The show of gas may have been from the tighter zone on top at 3165 - 70 feet where porosity averaged about 16% and the water saturation was 70%. This sandstone horizon is not productive in any nearby wells and in most of the wells is absent or poorly developed. Only two clean sandstones were

developed in the Salt Wash section and no sample shows were found. The only indication of hydrocarbons was by log analysis in a three-foot zone from 3425 - 28 feet. Porosity was 15% and calculated water saturation was 43% in this interval. Since it is a very thin and probably discontinuous sandstone of marginal potential at best, it was not tested. Log correlation places this sandstone about 30 to 50 feet stratigraphically below the main productive sandstone in the Bull Canyon wells to the west.

In summary, the Dakota sandstones were tight and impermeable, the Cedar Mountain zone is thin and lacks significant porosity and the Salt Wash section had only one very thin zone of porosity. Only the Morrison sandstone at 3165 - 81 feet had a significant zone of porosity, but it contained water. thicker Salt Wash sands, which are productive in the No. 2 and 3 Bull Canyon wells to the west, are very tight and nearly shaled out in this well. However, because of channel irregularities in these sandstones the adjacent locations to the north, and southwest still appear to have good possibilities, especially in the middle to upper Salt Wash sandstones and the Cedar Mountain formation. In addition, the Morrison sandstone at 3165 - 81. feet, with a slight gas show in the top, is a definite prospective horizon. Though seemingly less favorable, the thin sandstones in the Dakota may be productive and are considered highly prospective in the southeast quarter of section 4.

## SUMMARY OF WELL DATA

OPERATOR:

The Anschutz Corporation

PARTNERS:

NARMCO

WELL:

Federal 675, No. 2

LOCATION:

1141 FNL, 859 FEL, NE NE Sec 9, T. 20 S.,

R. 21 E., Grand County, Utah.

ELEVATIONS:

KB: 5704 feet GL: 5694 feet

FIELD:

Cisco Dome, Calf Canyon Area.

DRILLING SUPERVISOR:

Guy Edwards, Casper, Wyoming.

CONTRACTOR:

Pease Drilling Co., Rig No. 1 Toolpusher -- Bill Truell. Type Rig: Failing Stratmaster.

Power:

Twin 671 GMC'S.

Emsco D-175 with Twin @MC 671. Pump: Derrick: L.C. Moore, telescope, 87 foot.

SPUD DATE:

May 22, 1978.

CEASE DRILLING DATE:

May 26, 1978.

COMPLETION DATE:

May 27, 1978. PAA

TOTAL DEPTH:

Log T.D. 3517 feet in Salt Wash.

Drillers T.D. 3548 feet.

STATUS:

Dry & abandoned.

INITIAL POTENTIAL:

None.

HOLE SIZE & CASING:

Hole Size 12 1/4" 0 to 220'

Casing

7 7/8" 220 to 3548!

8 5/8" at 220 ft. with 160 sacks.

CORES:

None.

TESTS:

None.

LOGGING PROGRAM:

Sample Log 2500 - 3520 feet by Wayne Powell,

& Stan Collins.

Electric Logs 222 - 3515 feet by Schlumberger

SAMPLE INTERVAL:

30 foot --- 2500 to 3000 feet. 10 foot --- 3000 to 3520 feet.

CIRCULATE SAMPLES:

1 Hr. at 3520 feet - T.D., in Salt Wash.

SAMPLE CUTS & STORAGE:

Cloth bags to Am. Strat., Denver, Colo.

MUD PROGRAM:

Air drilled 0 to 3224 feet.

Air-mist 3224 to 3327 feet.

Mud drilled 3327 to 3548 feet, drillers TD.

WATER ZONES:

Morrison at 3170 - 82 feet, E - log depth,

too much water to dust, converted to

air-mist.

LOST CIRCULATION:

None.

COMPLETION DATA:

Spotted cement plugs as follows:

Surface ----- 10 sacks. 150 - 200 feet ---- 35 sacks. 2850 - 2950 feet --- 35 sacks. 3000 - 3150 feet --- 45 sacks.

# FORMATION TOPS

Age	Formation	Depth	<u>Datum</u>	Interval Thickness	
Cretaceous	Mancos	Surface	+5704	2954	
·	B/Dakota Silt	2954	+2750	38	
	Dakota SS	2992	+2712	100	
	Cedar Mountain	3092	+2612	36	
Jurassic	Morrison	3128	+2576	188	
	Salt Wash	3316	+2380	201	
	Log Total Depth	3517	+2187		

# ELECTRIC LOGGING PROGRAM

Company	Type Log	From	To
Schlumberger	Dual Induction - Laterolog	222	3511
Schlumberger	GR - Density - CNL	2500	3515

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Log Analysis

-Schlumberger

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All interpretations are opinions based on inferences from electrical and other measurements and we cannot, and do not, guarantee the occuracy or correctness of any interpretations, and we shall not, except in the case of gress or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by enviore resulting from any interpretation made by only of our officers, openits or employees.

These interpretations are also subject to Clause 4 of our General Terms and Conditions as set set if our current Price Schools.

•14	LOCATION	_		
44 - 21 -610	1 A	EMPINEES	^ / I	
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WO-1235-E			10.	

#### OIL AND GAS SHOWS

SHOW & FM: Show No. 1 in Cedar Mountain.

DEPTH: 3154 feet (3124 feet - log depth).

TYPE SHOW: Sample and oil spray at blooie line.

LITHOLOGY: Sandstone, white - light gray, fg - vfg,

very calcareous.

POROSITY: Maximum 16% on logs, appears tight in

samples.

SAMPLE SHOWS: Trace light stain, weak oil odor, very

weak light yellow fluor.

BLOOIE LINE: Brief spray of oil at blooie line for 2

minutes and continued dusting without making a significant amount of fluid.

DRILLING TIME: No significant change, drilling 0.4 to

0.6 minutes per foot.

EVALUATION: Very poor show of oil while drilling

with air. Trace to no gas.

## OIL AND GAS SHOWS - CON T.

SHOW & FM:

Show No. 2 in Morrison Sandstone.

DEPTH

3201 feet (Log depth - 3171 feet).

TYPE SHOW:

Slight sample show & brief gas flare.

LITHOLOGY:

Sandstone, white - light gray, fine-grained,

sub - rd to sub - ang, sl. silceous,

non-calcareous.

POROSITY:

Poor porosity in samples, log porosity 16.5 to 23.5% from 3165 to 3180 feet.

SAMPLES SHOWS:

Fair even fluor, no stain. (Unwashed samples covered with oily dust probably from the oil zone above at 3124 feet).

GAS SHOWS:

Had very weak, intermittent gas flare for several minutes at connection. Too weak to measure. Gas flare was followed by water at 3224 feet (3194log depth) where the well had to be converted

to air-mist drilling. No show of oil with gas. Had brief connection gas at

3234 feet -- log depth.

DRILLING TIME:

One minute per foot through show.

half minute per foot above show.

**EVALUATION:** 

Very poor gas show from top of sandstone

which was water saturated.

# SUMMARY OF DAILY OPERATIONS

DATE	DEPTH & OPERATION
May 1978	
22	0 - Spud well & set 8 5/8" surface casing at 220 feet with 160 sacks.
23	541 - Drilling with air.
24	2560 - Drilling with air.
25	3327° - Waiting on orders, ran logs from 11p.m. to 3 a.m. & telecopy logs to Denver. Convert to air-mist at 3224 feet and drille to T.D., pumped and slug (250 bbls.) into hole at T.D. for logging and plugging. Fluid level at 917 feet for logging.
26	3477 - Drilling with mud. Operator decided to drill 200 feet deeper to test sands in the Salt Wash.
27	3548 - Driller's total depth, reached at 10 p.m. Finished logging at 5 a.m. and telecopy logs to Denver. Log T.D 3517 feet. P & A this date, 5 - 27 - 78.

# HOLE DEVIATION RECORD

DEPTH	DEGREES
500	3/4
1500	2
2000	1 1/4
2510	2

### BIT RECORD

NO.	CO.	SIZE	TYPE	FROM	TO	FOOTAGE	Hours
1	Reed	12 10	31 GJ	0	.220	220	5
2	Reed	7 7/8"	FP 51J	220	3327	3107	38
3	Reed	7 7/8"	FP 51J	3327	3548	221	32

(May 1963)	U TED STATE		ATE Form approved. Budget Bureau No. 42-Ri
DE	PARTMENT OF THE	INIERIOR verse side)	5. LEASE DESIGNATION AND SERIAL
	GEOLOGICAL SUF	RVEY	U-5675
SUNDRY	NOTICES AND REP	ORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE N.
(Do not use this form f		n or plug back to a different reservoir.	
	711111111111111111111111111111111111111		7. UNIT AGREEMENT NAME
OIL GAS WELL	OTHER Dry Hole		
2. NAME OF OPERATOR			8. FARM OR LEASE NAME
The Anschutz Co	orporation		Federal 675
ADDRESS OF OPERATOR			9. WELL NO.
555 - 17th Stre	eet, Suite 2400, Den location clearly and in accordance	ver, Colorado 80202	No. 2
See also space 17 below.)	location clearly and in accordance	s with any State requirements.	
At surface			Wildcat 11. SEC., T., B., M., OR BLK. AND
11/11 TNT 9501	וסט 1		SURVEY OR AREA
1141' FNL, 859'	r £L		Sec. 9, T20S, R21E
14. PERMIT NO.	15. ELEVATIONS (Show	whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
	5694' GR		Grand Utah
. 6. CI	heck Appropriate Box To le	ndicate Nature of Notice, Report	t, or Other Data
	OF INTENTION TO:		SUBSEQUENT REPORT OF:
<u></u>	<del>-</del> -1		
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF FRACTURE TREATMENT	REPAIRING WELL  ALTERING CASING
FRACTURE TREAT SHOOT OR ACIDIZE	MULTIPLE COMPLETE ABANDON*	X SHOOTING OR ACIDIZIN	
REPAIR WELL	CHANGE PLANS	(Other)	
(Other)		(Norg: Report Completion or F	results of multiple completion on Well Recompletion Report and Log form.)
17. DESCRIBE PROPOSED OR COMP. proposed work. If well	LETED OPERATIONS (Clearly state as directionally drilled, give subs	all pertinent details, and give pertinent urface locations and measured and true	dates, including estimated date of starting vertical depths for all markers and zones
nent to this work.) *			
This well was s	spudded on 5-22-78 s	and drilled to a total d	lepth of 3517' KB. Electr
logs were run f	from T.D. to the sur	face casing. No zones	of interest were indicated
		lug and abandon this wel	
			•
	Cement	Depth	
	45 sx	3000-3150'	
	45 sx 35 sx	3000-3150' 2850-2950'	
	45 sx 35 sx 35 sx	3000-3150' 2850-2950' 150-200'	
	45 sx 35 sx	3000-3150' 2850-2950'	
	45 sx 35 sx 35 sx	3000-3150' 2850-2950' 150-200'	
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8. I hereby certify that the fo	45 sx 35 sx 35 sx 10 sx	3000-3150' 2850-2950' 150-200'	
18. I hereby certify that the fo	45 sx 35 sx 35 sx 10 sx	3000-3150' 2850-2950' 150-200'	ator DATE 5/15/79

APPROVED BY _______CONDITIONS OF APPROVAL, IF ANY:

DATE _

# D

EPARTMENT OF THE INTERIOR  GEOLOGICAL SURVEY	(See other instructions on reverse side)	
		6. IF INDIAN ALLOTTEE OF TRIBE NAM

WELL CO		V OR	RECON	<b>APLET</b>	ION	REPORT	A۱	1D, LC	G *	6. IF INDI	AN, ALLO	TTEE OR TRIBE NAM
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At total depth										Sec.	9, 1	20S, R21E
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<del></del>										Grar	nd	Utah
15. DATE SPUDDED	16. DATE T.D.	REACHED	17. DATE	COMPL.	(Ready	to prod)	8. ELE	VATIONS (	DF, RKB,	RT, GR, ETC.)*	19. E	LEV. CASINGHEAD
5/22/78	5/26/78			_5-	<b>ユ</b> トノ	8144	56	94 GR			5	694 <b>'</b>
20. TOTAL DEPTH, MD	1		D., MD & 7	rvd 22	. IF MUI	TIPLE COMPI	J.,		TERVALS	ROTARY TO	OLS	CABLE TOOLS
3517' KB	S	urface							<b>&gt;</b>	0-3517		_
24. PRODUCING INTER	VAL(S), OF THI	S COMPLET	CIONTOP,	BOTTOM,	NAME (	MD AND TVD)	•				25	. WAS DIRECTIONAL SURVEY MADE
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31. PERFORATION REC	ORD (Interval, s	ize and ni	imber)			32.	AC	ID. SHOT	, FRACT	URE, CEMEN	T SQUE	EZE, ETC.
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			OUR RATE	1				1	W ALDU	-886.	OLD GRA	AVIII-AFI (CORR.)
34. DISPOSITION OF GA	s (Sold, used for	r fuel, ven	ted, etc.)	<u>i</u>				1		TEST WITNE	SSED BY	
35. LIST OF ATTACHM	ENTS								<del></del>	<u> </u>	<del> </del>	
36. I hereby certify	that the foregoi	ng and at	ached info	ormation	is comp.	ete and corr	ect as	determin	ed from	all available	records	
7	-13/F	<del>)</del>								•		5 / <b>7</b> 0
signed Pete	r B. Doty		<del> </del>	TIT	re Ob	erations	Co.	ordína	tor	DAT	€ <u>5/1</u>	5/ /9



2400 ANACONDA TOWER 555 SEVENTEENTH STREET DENVER, COLORADO 80202 TELEPHONE 303-825-6100 TWX 910-931-2620

May 18, 1979

Mr. Ed Guynn
District Engineer
U. S. Geological Survey
8426 Federal Building
125 S. State Street
Salt Lake City, Utah 84138

Re: Federal 675 No. 2 Sec. 9, T20S, R21E Grand County, Utah

Dear Mr. Guynn:

Enclosed please find two copies of the Geologic Report and the Geological well log for the referenced location.

Very truly yours,

Peter B. Doty

Operations Coordinator

PBD:jp

cc: Cleon Feight